

Hydro Profile



Light Efficiency:

8 Lumen/Watt

Light Quality:

CRI: 69.0

Color Temperature:

5233 K

Output: 6983 lm

Peak: 941315 cd

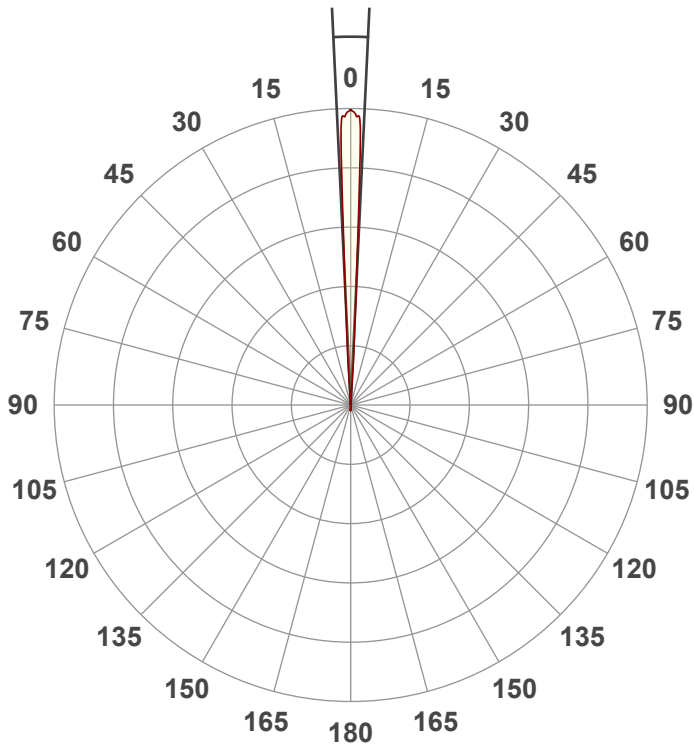
Power: 865 W

PF: 1.0



Beam Angle

5.4°



Test:

Zoom In 5200K

Date:

7/19/2022

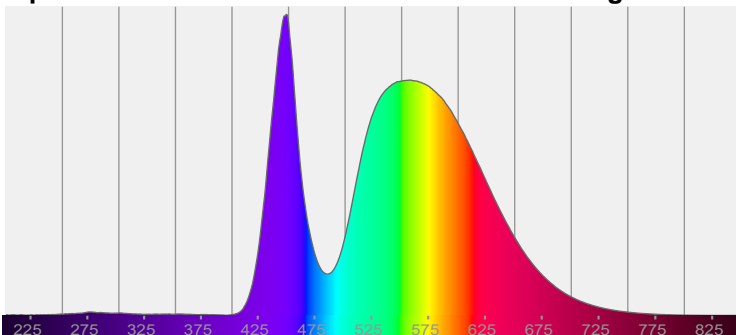
Note:

CTO @ 127

CIE 1931
x: 0.340
y: 0.364

Spectra

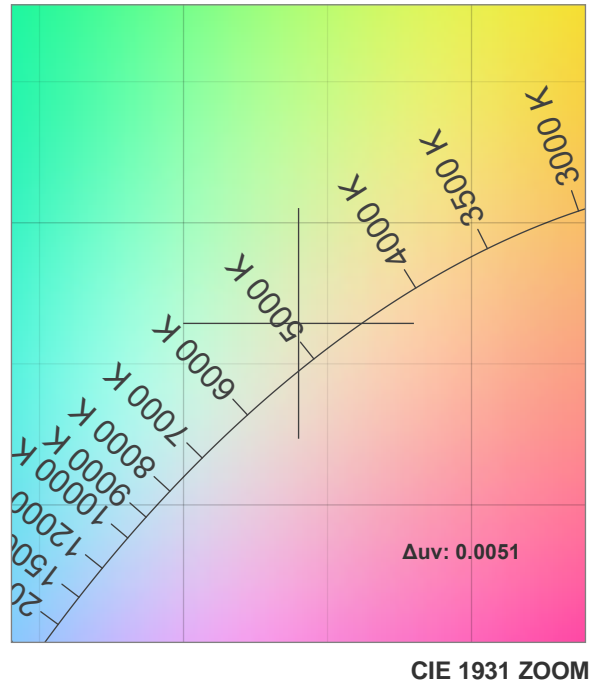
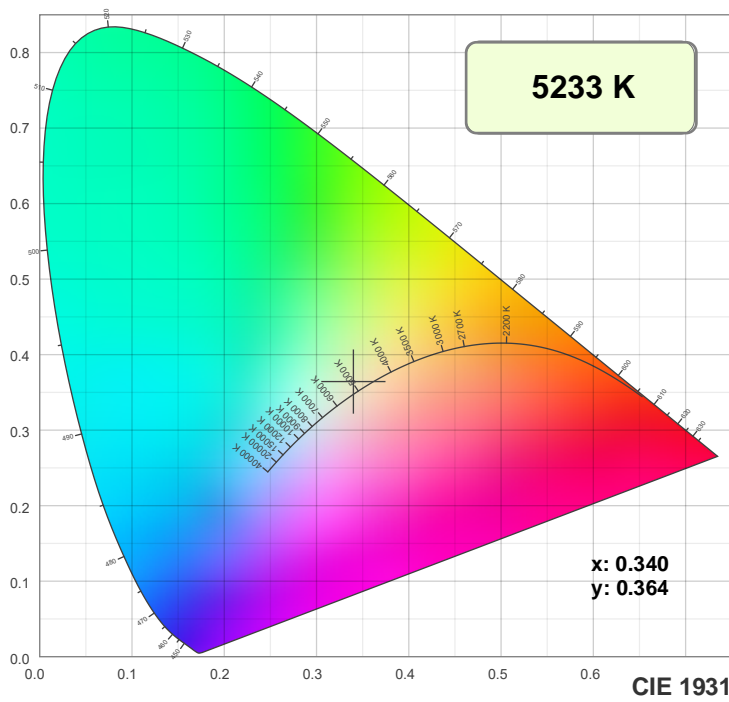
Dominant Wavelength: 573nm



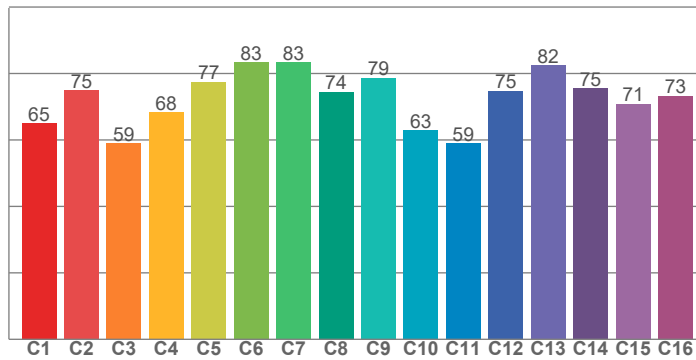
Power

Voltage: 118 V
Current: 7.35 A
Frequency: 0 Hz

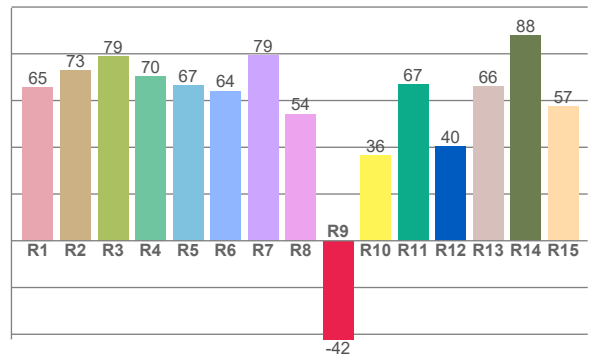
Color Details



TM30: 72.2



CRI: 69.0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
65.5	73.1	79.0	70.3	66.5	64.2	79.3	54.3	-42.2	36.4	66.7	40.4	66.2	88.1	57.5

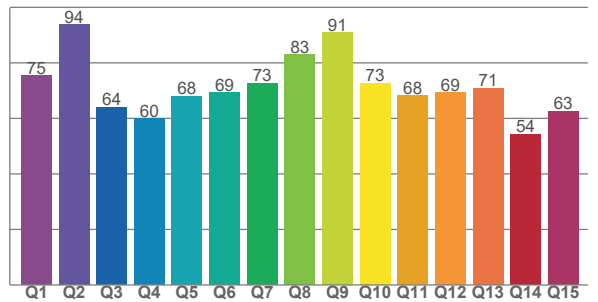
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
65.0	74.9	59.0	68.3	77.4	83.4	83.3	74.4	78.6	62.8	59.0	74.8	82.3	75.5	70.8	73.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.5	93.7	64.1	60.0	67.9	69.2	72.7	83.0	90.8	72.7	68.3	69.4	70.8	54.3	62.6

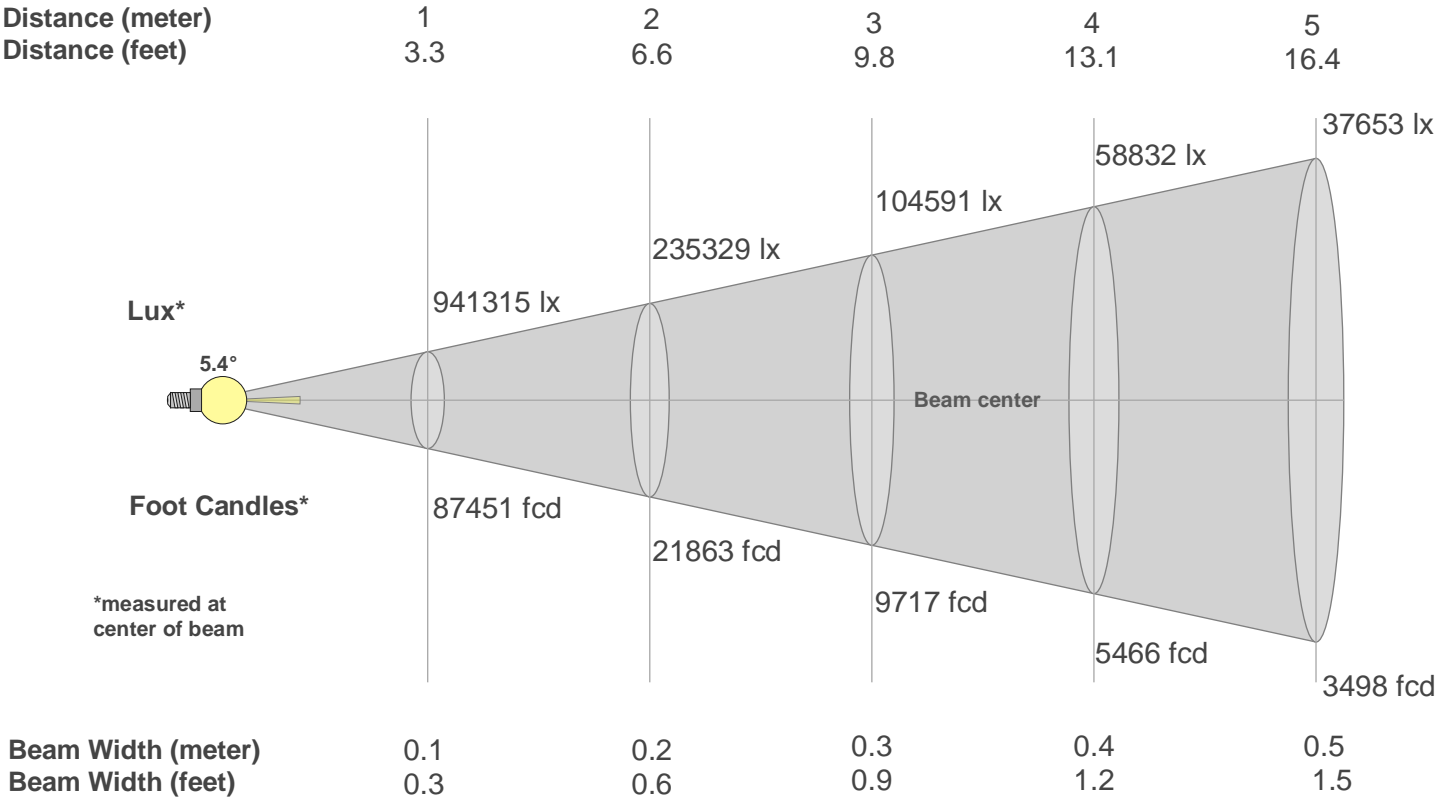
CQS: 69.8



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
5233 K	69.0	-42.2	72.2	93.3	69.8	0.340	0.364	0.203	0.327	0.0051

Beam Details



Lux*

5.4°

Foot Candles*

*measured at center of beam

941315 lx

235329 lx

104591 lx

58832 lx

37653 lx

87451 fcd

21863 fcd

9717 fcd

5466 fcd

3498 fcd

Beam center

Beam Width (meter)

Beam Width (feet)

0.1

0.3

0.2

0.6

0.3

0.9

0.4

1.2

0.5

1.5

Beam Intensities from 1-20m																				
m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	941315	235329	104591	58832	37653	26148	19211	14708	11621	9413	7779	6537	5570	4803	4184	3677	3257	2905	2608	2353
fcd	87451.1	21862.8	9716.8	5465.7	3498	2429.2	1784.7	1366.4	1079.6	874.5	722.7	607.3	517.5	446.2	388.7	341.6	302.6	269.9	242.2	218.6

Intensities in 0° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
941K	926K	855K	284K	20K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	30%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 90° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
941K	926K	855K	284K	20K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	30%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 180° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
941K	926K	855K	284K	20K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	30%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 270° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
941K	926K	855K	284K	20K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	30%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
5.4°	7.4°	8°	100.0%	100.0%